

# RAW SEQUENCE LISTING

EFS

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/525,301A

Source: 1 Fwd

Date Processed by STIC: 11/29/06

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 11/29/2006

PATENT APPLICATION: US/10/525,301A

TIME: 12:03:08

Input Set : N:\efs\11\_29\_06\10525301a\_efs\9966CRFSL.txt

Output Set: N:\CRF4\11292006\J525301A.raw

```

3 <110> APPLICANT: JACKSON, DAVID
4     ZENG, WEIGUANG
6 <120> TITLE OF INVENTION: NOVEL IMMUNOGENIC LIPOPEPTIDES COMPRISING T-HELPER
7     AND B-CELL EPITOPES
9 <130> FILE REFERENCE: 25229-09966/US
11 <140> CURRENT APPLICATION NUMBER: 10/525,301A
12 <141> CURRENT FILING DATE: 2005-02-14
14 <150> PRIOR APPLICATION NUMBER: PCT/AU03/01018
15 <151> PRIOR FILING DATE: 2003-08-12
17 <150> PRIOR APPLICATION NUMBER: 60/402838
19 <151> PRIOR FILING DATE: 2002-08-12
22 <160> NUMBER OF SEQ ID NOS: 115
24 <170> SOFTWARE: PatentIn Ver. 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 16
28 <212> TYPE: PRT
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
33     Peptide
35 <400> SEQUENCE: 1
36 Gly Ala Leu Asn Asn Arg Phe Gln Ile Lys Gly Val Glu Leu Lys Ser
37   1             5             10             15
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 10
42 <212> TYPE: PRT
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
47     Peptide
49 <400> SEQUENCE: 2
50 Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
51   1             5             10
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 9
56 <212> TYPE: PRT
57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
61     Peptide
63 <400> SEQUENCE: 3
64 His Trp Ser Tyr Gly Leu Arg Pro Gly
65   1             5

```

## RAW SEQUENCE LISTING

DATE: 11/29/2006

PATENT APPLICATION: US/10/525,301A

TIME: 12:03:08

Input Set : N:\efs\11\_29\_06\10525301a\_efs\9966CRFSL.txt

Output Set: N:\CRF4\11292006\J525301A.raw

```

68 <210> SEQ ID NO: 4
69 <211> LENGTH: 5
70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
75     Peptide
77 <400> SEQUENCE: 4
78 Gly Leu Arg Pro Gly
79   1           5
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 26
84 <212> TYPE: PRT
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
89     Peptide
91 <400> SEQUENCE: 5
92 Gly Ala Leu Asn Asn Arg Phe Gln Ile Lys Gly Val Glu Leu Lys Ser
93   1           5           10           15
95 Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
96           20           25
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 26
101 <212> TYPE: PRT
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
106     Peptide
108 <400> SEQUENCE: 6
109 Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Gly Ala Leu Asn Asn Arg
110   1           5           10           15
112 Phe Gln Ile Lys Gly Val Glu Leu Lys Ser
113           20           25
116 <210> SEQ ID NO: 7
117 <211> LENGTH: 27
118 <212> TYPE: PRT
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
123     Peptide
125 <400> SEQUENCE: 7
126 Gly Ala Leu Asn Asn Arg Phe Gln Ile Lys Gly Val Glu Leu Lys Ser
127   1           5           10           15
129 Lys Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
130           20           25
133 <210> SEQ ID NO: 8
134 <211> LENGTH: 27
135 <212> TYPE: PRT

```

## RAW SEQUENCE LISTING

DATE: 11/29/2006

PATENT APPLICATION: US/10/525,301A

TIME: 12:03:08

Input Set : N:\efs\11\_29\_06\10525301a\_efs\9966CRFSL.txt

Output Set: N:\CRF4\11292006\J525301A.raw

```

136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
140     Peptide
142 <400> SEQUENCE: 8
143 Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Lys Gly Ala Leu Asn Asn
144   1             5             10             15
146 Arg Phe Gln Ile Lys Gly Val Glu Leu Lys Ser
147       20             25
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 27
152 <212> TYPE: PRT
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
157     Peptide
159 <400> SEQUENCE: 9
160 Lys Leu Ile Pro Asn Ala Ser Leu Ile Glu Asn Cys Thr Lys Ala Glu
161   1             5             10             15
163 Leu Lys His Trp Ser Tyr Gly Leu Arg Pro Gly
164       20             25
167 <210> SEQ ID NO: 10
168 <211> LENGTH: 28
169 <212> TYPE: PRT
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
174     Peptide
176 <400> SEQUENCE: 10
177 Ala Glu Leu Gly Glu Tyr Glu Lys Leu Leu Asn Ser Val Leu Glu Pro
178   1             5             10             15
180 Ile Lys Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
181       20             25
184 <210> SEQ ID NO: 11
185 <211> LENGTH: 28
186 <212> TYPE: PRT
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
191     Peptide
193 <400> SEQUENCE: 11
194 Thr Ala Ala Gln Ile Thr Ala Gly Ile Ala Leu His Gln Ser Asn Leu
195   1             5             10             15
197 Asn Lys Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
198       20             25
201 <210> SEQ ID NO: 12
202 <211> LENGTH: 28
203 <212> TYPE: PRT
204 <213> ORGANISM: Artificial Sequence

```

## RAW SEQUENCE LISTING

DATE: 11/29/2006

PATENT APPLICATION: US/10/525,301A

TIME: 12:03:08

Input Set : N:\efs\11\_29\_06\10525301a\_efs\9966CRFSL.txt

Output Set: N:\CRF4\11292006\J525301A.raw

206 <220> FEATURE:  
 207 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 208 Peptide  
 210 <400> SEQUENCE: 12  
 211 Pro Arg Tyr Ile Ala Thr Asn Gly Tyr Leu Ile Ser Asn Phe Asp Glu  
 212 1 5 10 15  
 214 Ser Lys Glu His Trp Ser Tyr Gly Leu Arg Pro Gly  
 215 20 25  
 218 <210> SEQ ID NO: 13  
 219 <211> LENGTH: 23  
 220 <212> TYPE: PRT  
 221 <213> ORGANISM: Artificial Sequence  
 223 <220> FEATURE:  
 224 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 225 Peptide  
 227 <400> SEQUENCE: 13  
 228 Lys Leu Ile Pro Asn Ala Ser Leu Ile Glu Asn Cys Thr Lys Ala Glu  
 229 1 5 10 15  
 231 Leu Lys Gly Leu Arg Pro Gly  
 232 20  
 235 <210> SEQ ID NO: 14  
 236 <211> LENGTH: 23  
 237 <212> TYPE: PRT  
 238 <213> ORGANISM: Artificial Sequence  
 240 <220> FEATURE:  
 241 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 242 Peptide  
 244 <400> SEQUENCE: 14  
 245 Ala Glu Leu Gly Glu Tyr Glu Lys Leu Leu Asn Ser Val Leu Glu Pro  
 246 1 5 10 15  
 248 Ile Lys Gly Leu Arg Pro Gly  
 249 20  
 252 <210> SEQ ID NO: 15  
 253 <211> LENGTH: 23  
 254 <212> TYPE: PRT  
 255 <213> ORGANISM: Artificial Sequence  
 257 <220> FEATURE:  
 258 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 259 Peptide  
 261 <400> SEQUENCE: 15  
 262 Thr Ala Ala Gln Ile Thr Ala Gly Ile Ala Leu His Gln Ser Asn Leu  
 263 1 5 10 15  
 265 Asn Lys Gly Leu Arg Pro Gly  
 266 20  
 269 <210> SEQ ID NO: 16  
 270 <211> LENGTH: 23  
 271 <212> TYPE: PRT  
 272 <213> ORGANISM: Artificial Sequence  
 274 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 11/29/2006

PATENT APPLICATION: US/10/525,301A

TIME: 12:03:08

Input Set : N:\efs\11\_29\_06\10525301a\_efs\9966CRFSL.txt

Output Set: N:\CRF4\11292006\J525301A.raw

```

275 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
276     Peptide
278 <400> SEQUENCE: 16
279 Pro Arg Tyr Ile Ala Thr Asn Gly Tyr Leu Ile Ser Asn Phe Asp Glu
280   1             5             10             15
282 Ser Lys Gly Leu Arg Pro Gly
283           20
286 <210> SEQ ID NO: 17
287 <211> LENGTH: 5
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
293     Peptide
295 <400> SEQUENCE: 17
296 Ser Lys Lys Lys Lys
297   1             5
300 <210> SEQ ID NO: 18
301 <211> LENGTH: 15
302 <212> TYPE: PRT
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
307     Peptide
309 <400> SEQUENCE: 18
310 Ala Leu Asn Asn Arg Phe Gln Ile Lys Gly Val Glu Leu Lys Ser
311   1             5             10             15
314 <210> SEQ ID NO: 19
315 <211> LENGTH: 15
316 <212> TYPE: PRT
317 <213> ORGANISM: Artificial Sequence
319 <220> FEATURE:
320 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
321     Peptide
323 <400> SEQUENCE: 19
324 Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly Val
325   1             5             10             15
328 <210> SEQ ID NO: 20
329 <211> LENGTH: 17
330 <212> TYPE: PRT
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
335     Peptide
337 <400> SEQUENCE: 20
338 Thr Ala Ala Gln Ile Thr Ala Gly Ile Ala Leu His Gln Ser Asn Leu
339   1             5             10             15
341 Asn
345 <210> SEQ ID NO: 21

```

**VERIFICATION SUMMARY**

DATE: 11/29/2006

PATENT APPLICATION: US/10/525,301A

TIME: 12:03:09

Input Set : N:\efs\11\_29\_06\10525301a\_efs\9966CRFSL.txt

Output Set: N:\CRF4\11292006\J525301A.raw